

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application Of. ) PATENT APPLICATION  
)  
Inventors: Peijun Ding ) Docket No. AM-1776  
Tony Chiang )  
Barry L. Chin )  
)  
Serial No.: Not Yet Assigned )  
)  
Filed: Herewith )  
)  
Title: A TAILORED BARRIER LAYER WHICH )  
PROVIDES IMPROVED COPPER )  
INTERCONNECT ELECTROMIGRATION )  
RESISTANCE )

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"  
UNDER 37 C.F.R. § 1.10**

"EXPRESS MAIL" MAILING LABEL NUMBER: EI215419063US  
DATE OF DEPOSIT: December 19, 1997

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Kathi Rafayko, Reg. No. 36,644

(Type Name)

(Signature)

Signature Date: December 19, 1997

**APPLICATION TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231  
Attn: **BOX PATENT APPLICATION**

Sir:

Transmitted herewith for filing is the patent application identified as follows:

Inventor(s): Peijun Ding  
Tony Chiang  
Barry L. Chin

Title: A TAILORED BARRIER LAYER WHICH PROVIDES IMPROVED  
COPPER INTERCONNECT ELECTROMIGRATION RESISTANCE

No. of pages of Specification: 16; No. of pages of Claims: 6; No. of pages of Abstract: 1

No. of Sheets of Drawings: 2; Formal:   , Informal: X.

Also enclosed are:

- X A Declaration and Power of Attorney.
- X An Assignment. Recording of the Assignment is hereby requested.
- A Power of Attorney.
- An Information Disclosure Statement under 37 C.F.R. §1.56.

### FEES DUE

The fees due for filing the specification pursuant to 37 C.F.R. §1.16 and for recording of the Assignment, if any, are determined as follows:

CLAIMS					
	NO. OF CLAIMS		EXTRA CLAIMS	RATE	FEES
Basic Application Fee					\$ 790.00
Total Claims	31	MINUS 20=	11	x \$22 =	242.00
Independent Claims	5	MINUS 3 =	2	x \$82 =	164.00
If multiple dependent claims are presented, add \$270.00					270.00
Add Assignment Recording Fee of \$40.00 if Assignment document is enclosed					40.00
<b>TOTAL APPLICATION FEE DUE</b>					<b>1,506.00</b>

### PAYMENT OF FEES

- The full fee due in connection with this communication is \$1,506.00, and is provided as follows:
  - [x] Check No. 448 in the amount of \$1,506.00 is enclosed.
  - [x] The Commissioner is hereby authorized to charge any additional fees which may be due under 37 C.F.R. § 1.16(a), § 1.16(b), §1.16(c) or §.21(h) or to credit any overpayment to Deposit Account No. 01-1651 of Applied Materials, Inc. of Santa Clara, California. A duplicate copy of this authorization is enclosed.

U.S. Express Mail No.: E1215536970US

Please direct all correspondence concerning the above-identified application to the following address:

Patent Counsel  
Applied Materials, Inc.  
P.O. Box 450-A  
Santa Clara, California 95052

Please direct telephone inquiries to:


Shirley L. Church, Esq.  
(408) 745-1567

Respectfully submitted,

Date:

Dec 19, 1997

By:



Kathi Rafayko  
Agent for Applicants  
Reg. No. 36,644

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